

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-19. (Canceled)

20. (Currently Amended) A method for changing the channel assignment in a wireless LAN system using a clear channel assignment mechanism for randomly accessing a channel, said method comprising the steps of:

tuning to the desired frequency;

performing a Clear Channel Assessment test;

determining a beacon deacon decodability; and

if a valid IEEE (Institute of Electrical and Electronic Engineers) 802.11a Beacon Frame cannot be identified, reporting to an access point that a physical layer similar to IEEE802.11a was found, but that a found media access control was foreign reporting a physical layer and a media access control to an access point.

21. (Previously Presented) In a wireless local area network in which a selected portion of a frequency band is dynamically selectable upon which to communicate a first-system-type data packet, the frequency band also selectably utilized by a second radio communication system upon which selectably to communicate a second-system-type data packet, an improvement of apparatus for a communication station operable in the wireless local area network, said apparatus at least for reporting whether the portion of the frequency band to which the communication station is tuned is being used to communicate the first-system-type data packet, said apparatus comprising:

an indicator at least coupled to receive an indication of a determination of whether the first-system-type data packet is communicated upon the portion of the frequency band to which the communication station is tuned, said indicator for generating an indication signal representative of the determination; and

a reporter coupled to receive the indication signal generated by said indicator, said reporter for generating a report message that includes a field populated with a value indicative of the indication signal generated by said indicator.

22. (Previously Presented) The apparatus of claim 21 wherein the communication station comprises a receive portion and wherein said indicator comprises an activity determiner coupled to the receive portion; said activity determiner for determining activity upon the selected portion of the frequency band to which the communication station is tuned, said activity determiner for indicating at least when communication energy is determined to be present upon the selected portion of the frequency band.

23. (Previously Presented) The apparatus of claim 22 in which the communication system is operable pursuant to an operational protocol which defines a clear channel assessment operation and wherein said activity determiner performs a clear channel assessment operation.

24. (Previously Presented) The apparatus of claim 23 wherein said indicator further comprises a decoder coupled to said activity determiner and coupled to receive indications of the communication energy when determined to be present upon the selected portion of the frequency band, said decoder for decoding at least part of the communication energy to determine whether the communication energy comprises at least one of the first-system-type data packet and the second-system-type data packet.

25. (Previously Presented) The apparatus of claim 24 wherein the first-system-type data packet is defined in terms of logical layers including a physical (PHY) layer and at least one higher-level layer, and wherein said identifier further comprises a packet address detector operable responsive to determination by said decoder that the communication energy comprises at least one of the first-system-type and second-system-type data packets, respectively, said packet address detector for detecting whether the at least one of the first-system-type and second-system-type data packets further comprises a packet address in the higher-level layer.

26. (Previously Presented) The apparatus of claim 25 wherein the first-system-type data packet is formatted according to a selected higher-level layer protocol and wherein said packet address detector detects when the communication energy comprises the data packet formatted according to the selected higher-level layer protocol.

27. (Previously Presented) The apparatus of claim 26 wherein the wireless local area network is operable pursuant to an IEEE (Institute of Electrical and Electronic Engineers) 802.11 standard and wherein said packet detector detects when the communication energy comprises an IEEE 802.11-formatted data packet.

28. (Previously Presented) The apparatus of claim 21 wherein the field of the report message generated by said reporter is formed of a first digital value when the indication signal is of a first value and is formed of another digital value when the indication signal is other than the first value.

29. (Previously Presented) The apparatus of claim 21 wherein the wireless local area network is operable pursuant to an IEEE (Institute of Electrical and Electronic Engineers) 802.11 standard and wherein the field of the report message generated by said

reporter is of a value indicative of whether an 802.11-standard-formatted data packet is determined to be communicated upon the portion of the frequency band to which the communication station is tuned.

30. (Previously Presented) The apparatus of claim 29 wherein the second-system-type data packet is formatted pursuant to a foreign, relative to the IEEE 802.11 standard, PLCP (physical layer convergence protocol) and wherein said indicator distinguishes between the 802.11-standard-formatted data packet on a foreign-PLCP-formatted data packet forming the second-system-type data packet.

31. (Previously Presented) The apparatus of claim 30 wherein said reporter generates a communication-station measurement summary and wherein the field populated with the value indicative of the indication signal generated by said indicator comprises a portion of the communication-station measurement summary.

32. (Previously Presented) In a method for communicating in a wireless local area network in which a selected portion of a frequency band is dynamically selectable upon which to communicate a first-system-type data packet, the frequency band also selectably utilized by a second radio communication system upon which selectably to communicate a second-system-type data packet, an improvement of a method for a communication station operable in the wireless local area network, said method at least for reporting whether the portion of the frequency band to which the communication station is tuned is being used to communicate the first-system-type data packet, said method comprising:

generating an indication signal representative of a determination of whether the first-system-type data packet is communicated upon the portion of the frequency band to which the communication station is tuned; and

forming a report message that includes a field populated with a value indicative of the indication signal generated during said operation of generating.

33. (Previously Presented) The method of claim 32 comprising the additional operation, prior to said operation of generating, of determining activity upon the selected portion of the frequency band to which the communication station is tuned, the activity upon the selected portion of the frequency band indicated at least when communication energy is determined to be present upon the selected portion of the frequency band.

34. (Previously Presented) The method of claim 33 wherein the communication system is operable pursuant to an operational protocol which defines a clear channel assessment operation, and wherein said operation of determining comprises performing a clear channel assessment operation.

35. (Previously Presented) The method of claim 34 further comprising the operation, subsequent to said operation of performing, of decoding at least part of the communication energy, when determined during said operation of determining to be present, to determine whether the communication energy comprises at least one of the first-system-type data packet and the second-system-type data packet.

36. (Previously Presented) The method of claim 35 wherein the first-system-type data packet is defined in terms of logical layers including a PHY (physical) layer and at least one higher-level layer, and wherein said method further comprises the operation

of detecting whether the at least one of the first-system-type and second-system-type data packets, respectively, further comprises a packet address in the higher-level layer.

37. (Previously Presented) The method of claim 36 wherein the wireless local area network is operable pursuant to an IEEE (Institute of Electrical and Electronic Engineers) 802.11 standard and wherein said operation of detecting comprises detecting when the communication energy comprises an IEEE 802.11-formatted data packet.

38. (Currently Amended) The method of claim [[13]] 32 wherein the wireless local area network is operable pursuant to an IEEE (Institute of Electrical and Electronics Engineers) 802.11 standard and wherein the field of the report message generated during said operation of generating is of a value indicative of whether an 802.11-standard-formatted data packet is determined to be communicated upon the portion of the frequency band to which the communication station is tuned.

39. (Currently Amended) In a communication station operable in a wireless local area network that operates pursuant to an IEEE (Institute of Electrical and Electronics Engineers) 802.11 standard within a frequency band also used by another communication system, an improvement of measurement summary apparatus at the communication station, said measurement summary apparatus comprising:

a selected field populator for populating a selected field of a measurement summary with an indication of whether a portion of the frequency band to which the communication station is tuned is being used to communicate an 802.11-standard-formatted data packet, the indication comprising a first value if the portion of the frequency band is being used to communicate an 802.11-standard-formatted data packet, and a different value if

the portion of the frequency band is being used to communicate a data packet other than an 802.11-standard-formatted data packet.